H-STAR Faculty Publications 2010–12

During the two-year period Academic Years 2010-11 and 2011-12, 35 H-STAR affiliated faculty and researchers published 33 books and 535 research articles, and filed 4 patents. (A further 10 faculty who were active in H-STAR during the same period did not submit a publications list, so the actual figures are probably 30% higher.)

Bailenson, Jeremy

BOOK

2012


2011


2010


Barron, Brigid

BOOKS


CHAPTERS


ARTICLES


Chafe, Chris


N. Dairabi, P. Svensson, C. Chafe “Toward an algorithm to simulate ensemble rhythmic interaction based on quantifiable strategy functions” Proc. of the AES 129th Conf., SF, 2010


Chen, Helen


**Cook, Karen**


Darling-Hammond, Linda

BOOKS


*Speaking of Salaries: What It Will Take to Get Qualified, Effective Teachers in All Communities* (with Frank Adamson). Washington, DC: Center for American Progress, 2011.


BOOK CHAPTERS


ARTICLES
"Funding Disparities and the Inequitable Distribution of Teachers: Evaluating Sources and Solutions" (with Frank Adamson). Education Policy Analysis Archives, Vol. 21, No. 3 (January, 2013).


"Documentation and Democratic Education” (with Beverly Falk). Theory Into Practice (Winter 2010).


Das, Rhiju


Frederiksen, J.K., Li, N-S., Das, R.†, Herschlag, D.†, and Piccirilli, J.A.† (2012) "Metal ion rescue revisited: Biochemical detection of site-bound metal ions important for RNA folding", RNA, 18:1123-41.


Devlin, Keith

BOOKS

*Introduction to Mathematical Thinking*, 2012


ARTICLES


A uniform framework for describing and analyzing the modern battlefield, project for the US Army, non-classified: http://www.stanford.edu/~kdevlin/Papers/Army_report_0711.pdf

Etzkowitz, Henry

BOOKS


SPECIAL ISSUES

Silicon Valley: Global Model or Unique Anomaly *Social Science Information* (In Press)

Innovating Our Way Out of the Economic Crisis (with Ranga) *European Planning Studies*, 2012


JOURNAL ARTICLES

The Paradox of Success: Enhancing Technology Transfer at Stanford University *Social Science Information* (In Press)


An Innovation Strategy to End the Second Great Depression, *European Planning Studies*, 2012

Organizational Innovation in a Developing Country: Invention and Diffusion of the Brazilian Cooperative Incubator (with Almeida and Mello), *International Journal of Technology and Globalisation*, 2012

Wither the University: The Novum Trivium and the Transition from Industrial to Knowledge-based Society (with Ranga and Dzisah) *Social Science Information*, 2012.


Convergence of Science Parks, Centres and Clusters: From Creative Destruction to Creative Reconstruction in a Triple Helix Regime *Int. J. Technoentrepreneurship*, 2011

Normative Change in Science and the Birth of the Triple Helix *Social Science Information* 2011

Gender Dynamics in Science and Technology: From the “Leaky Pipeline” to the Vanish Box (with Ranga) *Brussels Economic Review*. 2011.


The Gender Revolution in Science (with Gupta and Kemelgor) *Journal of International Affairs*, 2010


BOOK CHAPTERS


Normative Change in Science and the Birth of the Triple Helix In *The Age of Knowledge*, 2012

The Triple Helix of Knowledge (with Dzisah) In *The Age of Knowledge*, 2012

“Spaces” a triple helix governance strategy for regional innovation (with Ranga). In *Innovation Governance in an Open Economy*, 2012

The Start-up factor: Regional Innovation Policy Convergence in the US and Sweden In *Innovation Governance in an Open Economy*, 2012


**ENCYCLOPEDIA ARTICLES**


Science and the Economy *Science, Technology, and Society*, Oxford University Press

**BOOK REVIEWS**


**Fruchter, Renate**

**JOURNAL ARTICLES**


**BOOK CHAPTERS**


**CONFERENCE PAPERS**

Castillo Cohen, F.J. and Fruchter, R. (2012) "Engaging global multidisciplinary project teams in target value design" Proc. ICCCE-XIV 14th International Conference on Computing in Civil and
Building Engineering, Moscow, Russia, June 2012.


Genesereth, Michael


E. Kao and M. Genesereth. Achieving cut, deduction, and other properties with a variation on quasi-classical logic. Short presentation at LICS 2011. [paper] [presentation]


Goldman, Shelley


**Hakuta, Kenji**


**Heer, Jeffrey**


ReVision: Automated Classification, Analysis and Redesign of Chart Images, Manolis Savva, Nicholas Kong, Arti Chhajta, Li Fei-Fei, Maneesh Agrawala, Jeffrey Heer. *ACM User Interface Software & Technology (UIST)*, Oct 2011. [25% Acceptance Rate, Notable Paper Award]


MUSE: Reviving Memories Using Email Archives, Sudheendra Hangal, Monica S. Lam, Jeffrey Heer. *ACM User Interface Software & Technology (UIST)*, Oct 2011. [25% Acceptance Rate]


Wrangler: Interactive Visual Specification of Data Transformation Scripts, Sean Kandel, Andreas...


Groups Without Tears: Mining Social Topologies from Email, Diana MacLean, Sudheendra Hangal, Seng Keat Teh, Monica Lam and Jeffrey Heer. *Proc. ACM Intelligent User Interfaces (IUI)*, Feb 2011.


**Hinds, Pamela**


**Jurafski, Dan**

2012


Adam Vogel and Dan Jurafsky. 2012. He Said, She Said: Gender in the ACL Anthology. *ACL Workshop on Rediscovering 50 Years of Discoveries*. 


Michael Levin, Stefan Krawczyk, Steven Bethard, and Dan Jurafsky. 2012. Citation-based bootstrapping for large-scale author disambiguation. Journal of the American Society for Information Science and Technology 63:5

2011


Nathanael Chambers and Dan Jurafsky. 2011. Template-Based Information Extraction without the Templates. ACL-2011, Portland, OR.


**Klemmer, Scott**

2012
Early and Repeated Exposure to Examples Improves Creative Work Chinmay Kulkarni, Steven P Dow, Scott R Klemmer. *Cognitive Science*


Shepherdng the Crowd Yields Better Work, Steven P. Dow, Anand Kulkarni, Scott R. Klemmer, Bjoern Hartmann.CSCW: ACM Conference on Computer Supported Cooperative Work

2011

d.tour: Style-based Exploration of Design Example Galleries, Daniel Ritchie, Ankita Arvind Kejriwal, Scott R Klemmer. *UIST: ACM Symposium on User Interface Software and Technology*

Flexible Tree Matching, Ranjitha Kumar, Jerry O. Talton, Salman Ahmad, Tim Roughgarden and Scott R. Klemmer. *IJCAI: International Joint Conference on Artificial Intelligence*


Creating and sharing multiple alternatives with peers leads to more individual exploration, better integration of others’ ideas, more productive design conversations, and higher-rated, better performing design results.


2010


**Leifer, Larry**

**BOOKS**


REFEREED PROCEEDINGS PAPERS


Gudem M., Steinert M., Welo T., Leifer L. (2011): Customer value is not a number – Investigating the value concept in Lean Product Development; ICED’11 (18th International Conference on Engineering Design), 15.-18.08.2011, Copenhagen, DEN.


Petersen S., Steinert M., Leifer L. (2011): What designers can learn from artists and architects about the philosophy within conceptualization; MDW VIII, Mudd Design Workshop, 26.-28.05.2011, Claremont, CA, USA.

Luhrmann, Tanya

BOOKS

ARTICLES


2012: “Touching the divine.” Reviews in Anthropology.

REVIEWS


Manning, Chris

2011


2010

Sharon Goldwater, Dan Jurafsky, and Christopher D. Manning. 2010. Which words are hard to recognize? Prosodic, lexical, and disfluency factors that increase speech recognition error rates. Speech Communication 52: 181-200.


Musen, Mark

JOURNAL ARTICLES


Ghazvinian, A., Noy, N.F., Musen, M.A. How orthogonal are the OBO Foundry ontologies? *Journal of Biomedical Semantics*, 2 (Suppl 2):S2, 2011. Published online:


REFEREED CONFERENCE PROCEEDINGS


Tudorache, T., Noy, N.F., Musen, M.A., Nyulas, C.I. Two use cases for the interoperability between an ontology repository and an ontology editor. ISWC Workshop on Ontology Repositories for the Web (SERES 2010), Ninth International Semantic Web Conference, Shanghai, China, 2010.


BOOK CHAPTERS


Nass, Cliff


Ng, Andrew


ICA with Reconstruction Cost for Efficient Overcomplete Feature Learning. Quoc V. Le, Alex Karpenko, Jiquan Ngiam and Andrew Y. Ng. In NIPS*2011.

Sparse Filtering, Jiquan Ngiam, Pangwei Koh, Zhenghao Chen, Sonia Bhaskar and Andrew Y. Ng. In NIPS*2011.

Unsupervised learning models of primary cortical receptive fields and receptive field plasticity, Andrew Saxe, Maneesh Bhand, Ritvik Mudur, Bipin Suresh and Andrew Y. Ng. In NIPS*2011.

Dynamic Pooling and Unfolding Recursive Autoencoders for Paraphrase Detection. Richard Socher, Eric H. Huang, Jeffrey Pennington, Andrew Y. Ng, and Christopher D. Manning In NIPS*2011.

Semi-Supervised Recursive Autoencoders for Predicting Sentiment Distributions. Richard Socher, Jeffrey Pennington, Eric Huang, Andrew Y. Ng, and Christopher D. Manning In Conference on Empirical Methods in Natural Language Processing (EMNLP 2011).


Multimodal deep learning, Jiquan Ngiam, Aditya Khosla, Mingyu Kim, Juhan Nam, Honglak Lee


Learning hierarchical spatio-temporal features for action recognition with independent subspace analysis, Quoc V. Le, Will Zou, Serena Yeung and Andrew Y. Ng. In *Computer Vision and Pattern Recognition (CVPR)*, 2011.


Learning Word Vectors for Sentiment Analysis, Andrew L. Maas, Raymond E. Daly, Peter T. Pham, Dan Huang, Andrew Y. Ng, and Christopher Potts. In 49th Annual Meeting of the Association for Computational Linguistics (ACL), 2011.


Learning Continuous Phrase Representations and Syntactic Parsing with Recursive Neural Networks Richard Socher, Christopher Manning and Andrew Ng. In NIPS*2010 Workshop on Deep Learning and Unsupervised Feature Learning.

A Probabilistic Model for Semantic Word Vectors Andrew Maas and Andrew Ng. In NIPS*2010 Workshop on Deep Learning and Unsupervised Feature Learning.

Tiled Convolutional Neural Networks, Quoc V. Le, Jiquan Ngiam, Zhenghao Chen, Daniel Chia, Pangwei Koh and Andrew Y. Ng. In *NIPS*’2010.


Learning to grasp objects with multiple contact points, Quoc Le, David Kamm and Andrew Y. Ng. In *International Conference on Robotics and Automation (ICRA)*, 2010.

Multi-Camera Object Detection for Robotics, Adam Coates and Andrew Y. Ng. In *International


A Steiner tree approach to object detection, Olga Russakovsky and Andrew Y. Ng. In *Computer Vision and Pattern Recognition (CVPR)*, 2010.

**Pea, Roy**

**BOOKS**


**ARTICLES AND CHAPTERS**


Maldonado, H., Pea, R.D. (2010). LET’S GO! To the Creek: Co-design of Water Quality Inquiry using Mobile Science Collaboratories. *Proceedings of the Sixth International IEEE Conference on Wireless, Mobile, and Ubiquitous Technologies in Education (WMUTE)*, pp. 81-87, Kaohsiung, Taiwan. [Honorary Mention, Student Best Paper Award]


**BJ Fogg & the Persuasive Technology Lab**

NEEMA MORAVEJI


DAVID B MILLER
Designing Pro-Environmental Behavior into Products – currently being finished for submission to Environment and Behavior. Based on my MA thesis work at NYU.


Datachron Information visualization of real-time power demand: Presented at the NYU Interactive Telecommunications Spring 2011 Show and the August 2011 Ebay Design Expo where it was awarded “best interaction design” by the jury.

Quantaproject Information visualization of the obesity and diabetes epidemics: Presented at the NYU Interactive Telecommunications Program Winter 2010 Show.

Thermogen thermoelectric generation kit: Presented at NYU Interactive Telecommunications Program spring 2010 show.

DEAN ECKLES


DAI SUKE IIZAWA

**Ranga, Marina**

**BOOKS AND BOOK CHAPTERS**


**JOURNAL ARTICLES**


Etzkowitz, H. and M. Ranga (2011), 'Gender dynamics in science and technology: From the “Leaky Pipeline” to the "Vanish Box", *Brussels Economic Review*, Special Issue « Beyond the leaky pipeline – Challenges for research on gender and science», 54 (2/3): 131-148, Summer-
Autumn 2011.


EUROPEAN COMMISSION REPORTS
Ranga, M. (2010), METRIS Country Report Social Sciences and Humanities in Romania 2010

Ranga, M. (2011), A study in support of the ERA Framework Impact Assessment on the way research and research systems are regulated in the EU Member States 2011

Ranga, M. (2010), Monitoring Study regarding the State Aid Framework for Research, Development and Innovation 2010


Reeves, Byron

PUBLISHED ARTICLES


MONOGRAPHS

PAPERS READ (SELECTED)


Russell, Martha


“Network Analysis of a Regional Ecosystem of Afterschool Programs,” Afterschool Matters, Winter 2011, with M. A. Smith.


“Transforming Innovation Ecosystems through Shared Vision and Network Orchestration, Presented at the 8th International Conference of the Triple Helix Association, Stanford University, July 11-14, 2011, with Jukka Huhtamäki, Jiafeng Yu and Neil Rubens.


“Explaining Innovation with Indicators of Mobility and Networks: Insights into Central Innovation Nodes in Europe,” Presented at the 8th International Conference of the Triple Helix Association, Stanford University, July 11-14, 2011, with Jukka Huhtamäki, Marko Turpeinen, Kaisa Still, and Neil Rubens.

“Semantic Analysis of Energy-Related Conversations in Social Media: A Twitter Case Study,” Presented at Persuasive Technology Conference, Columbus, Ohio, June 2-4, 2011, with June Flora, Markus Strohmaier, Jan Pöschko, Rafael Perez, and Neil Rubens.


“Human-Machine Interfaces for Publish on Demand Services,” Media X Research Summary, August 2012.


“Student Attitudes and Preferences for Cost and Format Options in Personalized, Cost Subsidized Print on Demand Course Materials,” with J. Yu and F. Lee, White Paper, Media X at Stanford University, 2011.

PATENT APPLICATIONS


Schwartz, Daniel

PEER-REVIEWED PUBLICATIONS


CHAPTERS


BOOKS


PEER-REVIEWED CONFERENCE PRESENTATIONS


Turner, Fred

BOOKS

JOURNAL ARTICLES


BOOKCHAPTERS

Turner, Fred. "The Pygmy Gamelan as Technology of Consciousness" (English) and "The Pygmy Gamelan als Bewusstseinstechnologie" (German translation) in Ingrid Beirer, Sabine Himmelsbach, and Carsten Seiffarth, eds., Paul DeMarinis: Buried in Noise, Berliner Künstlerprogramm des DAAD, Singuhr – Hoergalerie (Berlin, Germany) and Kehrer-Verlag (Heidelberg, Germany), 2010, 22-31.


REVIEWS


Wagner, Anthony

2012


2011


2010


Wandell, Brian


George Nune, Jonathan Winawer, Andreas M. Rauschecker, Mohammad Dastjerdi, Brett L. Foster, Brian Wandell, and Josef Parvizi (2011). Problem of signal contamination in interhemispheric dual-sided subdural electrodes. Epilepsia, v. 52 no. 11, e176-180. PMCID XXXX


**Willinsky, John**


**NOTE**
The following 11 faculty affiliated with H-STAR during 2010-12 did not submit a report: Russ Altman, Banny Bannerjee, Lera Boroditsky, Martin Fischer, Kincho Law, Andrea Lunsford, Michael Shanks, Sheri Sheppard, Guadalupe Valdes, Sam Wineburg.